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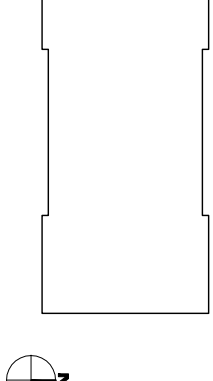
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CONTRACT:
DCE-2007-C-0089

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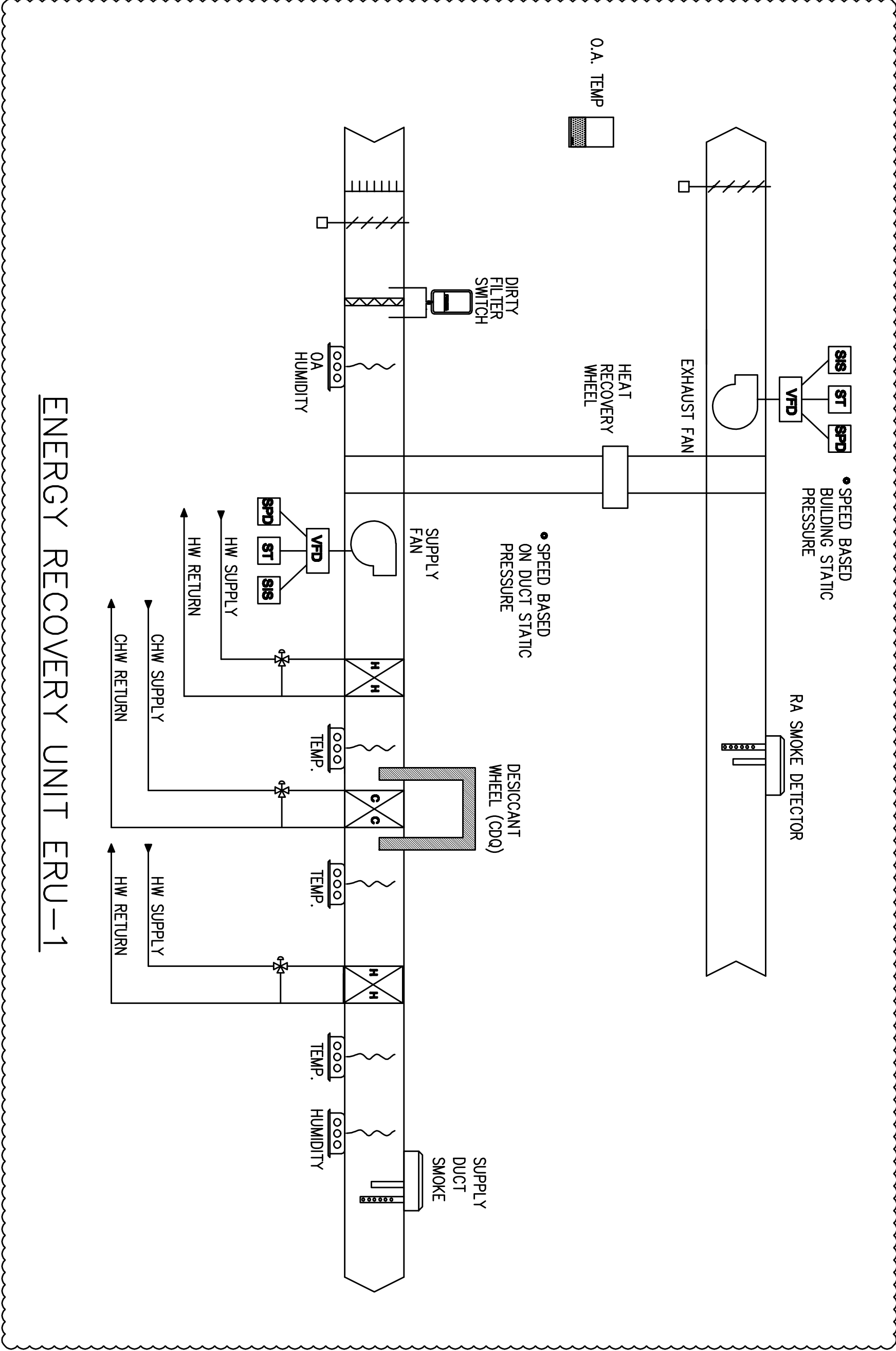


DESCRIPTION:	SCHEMATIC DESIGN SET
	DESIGN DEVELOPMENT
	PERMIT SET
	GMP SET
	OGB PERMIT REVIEW
	ADDENDUM 1

TITLE:

CONTROL DIAGRAM MECHANICAL

M-2.05



ENERGY RECOVERY UNIT ERU-1

OCCUPIED MODE:

THE CONTROLLER SHALL ENERGIZE THE SUPPLY FAN, ENTHALPY/SENSIBLE WHEELS, DX COIL, GAS HEATING VALVE, SHALL CYCLE TO MAINTAIN SETPOINT.

THE OUTDOOR AIR & RELIEF AIR DAMPERS SHALL MODULATE IN ACCORDANCE WITH A CARBON DIOXIDE SENSOR AND MAINTAIN VENTILATION.

CARBON DIOXIDE SENSOR SHALL MODULATE TO MAINTAIN VENTILATION AIR. AS CARBON DIOXIDE LEVELS INCREASE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN TO INTRODUCE MORE VENTILATION AIR. THE RELIEF AIR DAMPER SHALL MODULATE IN UNISON WITH OUTSIDE AIR DAMPER. THE UNIT CONTROLLER SHALL INDEX THE SYSTEM FOR SUMMER OR WINTER MODE OF OPERATION. CHANGE OVER SHALL OCCUR AT 60 F (ADJUSTABLE) OUTSIDE TEMPERATURE.

DEHUMIDIFICATION:

DEHUMIDIFICATION SHALL BE ENABLED WHENEVER FAN IS ENERGIZED.

SYSTEM SET POINTS:

COOLING SUPPLY AND DISCHARGE TEMPERATURE: 55 F (ADJUSTABLE)

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A SPACE COOLING SET POINT OF 75 F (ADJUSTABLE) AND HEATING SET POINT OF 70 F (ADJUSTABLE).

SMOKE DETECTOR:

SMOKE DETECTORS LOCATED IN THE SUPPLY AND RETURN AIR DUCTS SHALL DEENERGIZE UNIT FANS AND ALARM IF ANY SMOKE IS DETECTED. THE SMOKE DETECTORS SHALL REQUIRE MANUAL RESET.

